Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Estimate for the work of Construction of Culverts in ward no. 04 of Yelahanka Satellite Town Sub Division

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Civil Work								
1	KSRRB300-1. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.(I.NO 19.1,Page no 143 SR 2018-19)								
	Basic rate	130.00							
	Area Weightage 6%	7.80							
	Loading and Unloading & Lead,8KM, (57+ 2*1.28*8)	77.48							
	Total	**215.28**							
		Cum							
	For RCC CULVERT								
			12	7.20	1.50	1.00	129.60		
							129.60	**215.28**	**27,900.29**
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of Mix 1:4:8** with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.No-13,I No-4.3 of PWD BCSR 2018-19)								
	Basic Rate	5102.00							
	3.6*103.69	373.28							
	Sub total	5475.28							
	6% Area weightage	328.52							
	Total	**5803.80**							
		Cum							
	For RCC CULVERT								
			12	7.20	1.50	0.15	19.44		
							19.44	**5803.80**	**112825.89**
3	KSRRB M2200-6. Providing **TMT Bars Fe 500 steel reinforcement** for R.C.C. work including straightening, cutting, bending, hooking, placing in postion, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification.(I.NO 28.8.2 Page no 229, SR 2018-19)								
	Basic Rate	85468.00							
	Area Weightage 6%	5128.08							
		90596.08							
		Tn							
	Consider 80kg/cum for culvert		1	40.61		0.08	3.25		
							3.25	**90596.08**	**294314.0493**

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
4	Providing and laying plain/reinforced cement concrete for side drains using **M20 nominal mix concrete with OPC at 300 kgs.** With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	6670.00							
	6*103.69	622.14							
	Sub total	7292.14							
	6% Area weightage	437.53							
	Total	**7729.67**							
		Cum							
	RCC CULVERT RAFT								
			12	7.20	1.20	0.20	20.74		
	RCC CULVERT WALL								
			24	7.20	0.23	0.50	19.87		
	Culvert Ramp						**40.61**		
			24	7.20	0.70	0.10	12.10		
							52.70	**7729.67**	**407384.44**
5	Providing and fixing **RCC precast cover slab of 230mm thick** for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Data rate	**4486.00**							
		Sqm							
	RCC Culvert Covering Slab								
			12	7.20	1.20		103.68		
							103.68	**4486.00**	**465108.48**
6	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18 of PWD BCSR 2018-19)								
	Basic Rate	1888.00							
	Area Weightage 6%	113.28							
	Grand Total	**2001.28**							
	Culvert Ramp								
			24	7.20	0.70	0.13	15.72		
		Cum					**15.72**	**2001.28**	**31,469.73**

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
								Total Construction Cost	1339002.88
								Towards GST 12%	160680.35
								Sub Total	1499683.23
								Miscellaneous & Rounding Off	316.77
								Total	1500000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 04-11-2021 and Data Rates

Assistant Engineer
Ward no 04
BBMP Bangalore

Asst. Executive Engineer
Yelahanka Satellite Town Sub Division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore

Administrative Approval

Accorded For ....15.00 Lakhs
Head of A/C...3726.....
CER NO :....SS..... Dt:13/12/21

TA

CE (YNK)

TECHNICALLY SANCTIONED FOR Rs. 15.00 Lakhs
Rupees Fifteen lakh rupees only
.....
Under ....P-3726 POW works.....
.....
Registered as CE ( ) No. ....19..... 9 9
Subject to conditions contained in enclosed memo EE ( ) No. ....19...../9/
Dt..13/12/2021..... Estimate A/ Sanctioned
BBMP/EE(YNK-D/TS/19/21-22..No. 19.....
Dated ...13/12/2021..... Rs..15.00 lakhs.

Executive Engineer